

MODULAR TWO-BODY DESIGN FOR INTEGRATION OF MOBILE COMPUTING DEVICE FEATURES WITH A WIRELESS COMMUNICATION DEVICE

Abstract of the Invention

5 The integrated computing wireless communication device offers the added flexibility of
conventional mobile computing devices while offering optional portability of the wireless
communication device. The integrated computing wireless communication device includes an
information input/output device connected to a wireless communication device at a universal joint.
The information input/output device includes a display and at least one input device. The wireless
10 communication device includes a processor and at least one separate input device. The processor
receives the input and presents an output image on the display. The information input/output device
and the wireless communication device are electrically connected by electrical contacts of the
universal joint. The universal joint includes a pivot for rotating the information input/output device
over a vertical axis and a swivel for rotating the information input/output device over a horizontal
15 axis. The universal joint includes mechanical latch positions for latching the integrated computing
wireless communication device into a variety of positions for inputting information into the device.
The mechanical latch facilitates single-hand operation of the integrated computing wireless
communication device by latching the device into angles of rotation of the pivot and the swivel. The
information input/output device and the wireless communication device detach at the universal joint
20 so that the wireless communication device may be used independently of the information
input/output device. In an alternative embodiment, the information input/output device might be
replaced by a mobile computing device which, when separated, may be used independently of the
wireless communication device.